

Khushboo Makwana

Backend Developer | Node.js & Full-Stack Specialist

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Professional Summary

Backend Developer with 3.9 years of experience designing scalable, secure, and high-performance web applications using Node.js, Express.js, and MongoDB. Skilled in developing RESTful APIs, optimizing database performance, and improving system reliability. Expanded expertise into full-stack development with React.js and Next.js, AI tool integration, and enterprise client collaboration with organizations such as TCS and ICAI. Passionate about writing clean, modular, and efficient code.

Technical Skills

Backend	Node.js, Express.js, JavaScript (ES6+), RESTful APIs, NestJS
Databases	MongoDB, Mongoose, PostgreSQL, Redis, Database Design & Optimization
Frontend	React.js, Next.js, HTML, CSS, TypeScript (basic), Tailwind CSS, SWR, React Hook Form, i18n
DevOps & Tools	Git, GitLab CI/CD, Docker, PM2, Nginx, AWS S3, Firebase, Bull Queue
AI Integration	OpenAI API, LangChain, Prompt Automation
Other	JWT/OAuth, SAML/SSO, Payment Gateways (Razorpay/Stripe), Highcharts, Helmet, Rate Limiting

Professional Experience

Backend Developer | Knovator Technologies | Surat (Remote) June 2022 – Present

- Designed and maintained scalable backend systems and RESTful APIs powering multiple web and mobile platforms.
- Reduced API response time by 25% through optimized query structures and MongoDB caching strategies.
- Developed secure authentication and subscription modules supporting multiple payment gateways (Razorpay/Stripe) and currencies.
- Built full-stack features using React.js and Next.js, including dynamic UIs, multi-step forms, and reusable component libraries.
- Integrated SSL/certificate fixes, bulk mail features, and email validation logic for enterprise clients (TCS, ICAI).
- Implemented multi-role architecture (Admin, Employer, Candidate, Staff) with JWT, SSO (SAML), and OAuth.
- Configured CI/CD pipelines using GitLab CI, and PM2 cluster mode for zero-downtime deployments.
- Mentored junior developers and participated in code reviews to maintain coding standards.
- Actively exploring AI tool integration including OpenAI API and LangChain for enhanced backend automation.

Key Projects

MN School Jobs — School Job Board Platform *Tech Stack: Next.js, Node.js, Express.js, MongoDB, Redis, Firebase, AWS S3, Tailwind, SWR, React Hook Form, i18n, PM2, GitLab CI*

- Built a full-stack school job board enabling schools to post jobs and candidates to apply, track applications, and manage profiles.
- Developed multi-role architecture (Admin, Employer, Candidate, Staff) with JWT authentication, RBAC, SSO (SAML), and OAuth integration.
- Designed a centralized Admin Panel for managing jobs, users, employers, analytics, master data, and system configurations.
- Built dynamic dashboards with KPI tracking, hiring trends, and applicant analytics using Highcharts.

- Implemented real-time notifications via Firebase and SMS alerts using third-party APIs and packages.
- Developed scalable APIs with job matching, applicant tracking, subscription handling, and Razorpay/Stripe payment integration.
- Integrated AWS S3 for secure file uploads and bulk import/export using Excel processing.
- Implemented background job processing using Redis & Bull Queue for async tasks (emails, bulk uploads, PDF generation).
- Built multilingual (i18n) support and enforced security best practices (Helmet, XSS protection, rate limiting, NoSQL sanitization).

ICAI Campaign Server *Tech Stack: React.js, Next.js, Node.js, MongoDB, REST APIs*

- Built and maintained dynamic UI using React & Next.js for the ICAI campaign platform.
- Integrated secure REST APIs and resolved SSL/certificate issues in production environments.
- Implemented bulk mail feature and email validation logic for large-scale outreach campaigns.
- Optimized API performance for large datasets and debugged hydration errors and production deployment issues.
- Collaborated with backend team and MongoDB for scalable, reliable solutions.

Orbit Skills Center (OSC) *Tech Stack: Node.js, MongoDB, Express.js*

- Implemented modular API architecture for user assessments and role-based access control on an AI-driven hybrid skill development platform.

Orbit LMS & Orbit Guru Mardeka *Tech Stack: Node.js, MongoDB, Express.js*

- Designed backend APIs for course management, offline mobile sync, assessment management, quiz evaluation, and certification issuance.

Payment Subscription Module *Tech Stack: Node.js, Stripe, Razorpay*

- Implemented a reusable multi-gateway payment service for SaaS applications with automated plan renewals and payment tracking.

Education

Diploma in Computer Engineering 2017 – 2020

Government Polytechnic, Jamnagar

Professional Highlights

- Delivered multiple enterprise-grade backend systems handling thousands of active users.
- Trusted by leadership to manage client communications and production deployments for TCS and ICAI.
- Expanded from pure backend to full-stack development, including React/Next.js frontend and AI integrations.
- Continuously learning AI and frontend technologies to expand technical versatility.